



NiPR



JAMSTEC
Ny-Ålesund 79°N



Research Base



PEV



**Arctic Research Collaboration
for Radiosonde Observing System Experiment
(ARCROSE)**

**Jun Inoue
(NIPR/JAMSTEC)**

Why are Arctic radiosonde data important ?

✓ Northern Sea Route

Arctic cyclones frequently pass
→ high waves, strong winds, icing etc.
disturbing the ship navigations



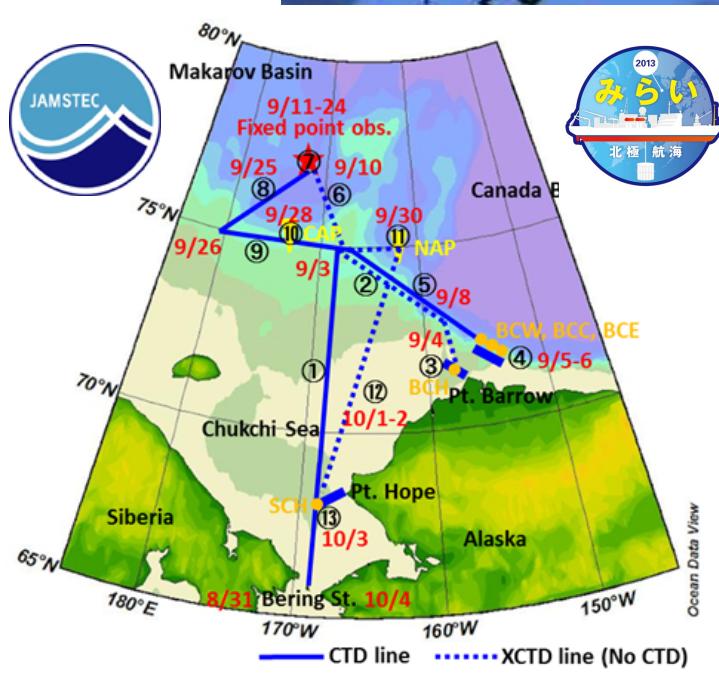
Icing on Mirai's anemometer

✓ Improving the predictability of NWP

- expanding the Arctic observing network
- evaluating the data impact by data assimilation
- proposing a future observing network



Additional soundings at a ship and land stations



				8/28	29	30	31
9/1	2	3	4	5	6	7	
8	9	10	11	12	13	14	
15	16	17	18	19	20	21	
22	23	24	25	26	27	28	
29	30	10/1	2	3	4	5	
6	7						

Mirai: **8 sondes/day** (31 August – 4 October)
Ny-Alesund: **6 sondes/day** (11-24 September)
Tiksi: **4 sondes/day** (11-24 September ?)